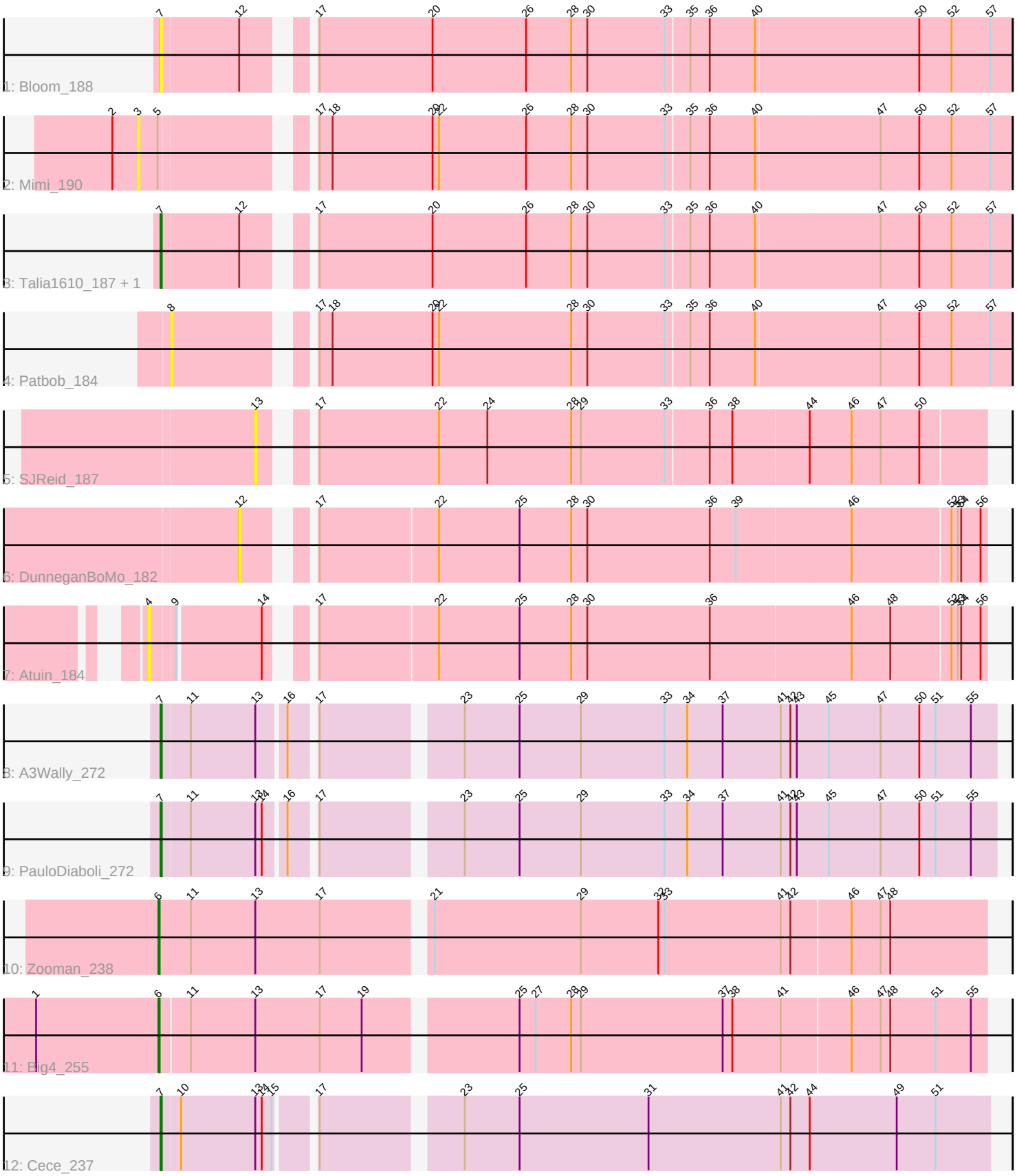
Pham 87691


1: Bloom_188
2: Mimi_190
3: Talia1610_187 + 1
4: Patbob_184
5: SJReid_187
6: DunneganBoMo_182
7: Atuin_184
8: A3Wally_272
9: PauloDiaboli_272
10: Zooman_238
11: Big4_255
12: Cece_237

Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

Pham 87691 Report

This analysis was run 04/05/24 on database version 557.

Pham number 87691 has 13 members, 7 are drafts.

Phages represented in each track:
• Track 1 : Bloom_188
• Track 2 : Mimi_190
• Track 3 : Talia1610_187, Racecar_185
• Track 4 : Patbob_184
• Track 5 : SJReid_187
• Track 6 : DunneganBoMo_182
• Track 7 : Atuin_184
• Track 8 : A3Wally_272
• Track 9 : PauloDiaboli_272
• Track 10 : Zooman_238
• Track 11 : Big4_255
• Track 12 : Cece_237

Summary of Final Annotations (See graph section above for start numbers):

The start number called the most often in the published annotations is 7, it was called in 4 of the 6 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• A3Wally_272, Bloom_188, Cece_237, PauloDiaboli_272, Racecar_185, Talia1610_187,

Genes that have the "Most Annotated" start but do not call it:
•

Genes that do not have the "Most Annotated" start:
• Atuin_184, Big4_255, DunneganBoMo_182, Mimi_190, Patbob_184, SJReid_187, Zooman_238,

Summary by start number:

Start 3:
• Found in 1 of 13 (7.7%) of genes in pham
• No Manual Annotations of this start.

• Called 100.0% of time when present
• Phage (with cluster) where this start called: Mimi_190 (FC),

Start 4:
• Found in 1 of 13 (7.7%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Atuin_184 (FC),

Start 6:
• Found in 2 of 13 (15.4%) of genes in pham
• Manual Annotations of this start: 2 of 6
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Big4_255 (GD2), Zooman_238 (GD2),

Start 7:
• Found in 6 of 13 (46.2%) of genes in pham
• Manual Annotations of this start: 4 of 6
• Called 100.0% of time when present
• Phage (with cluster) where this start called: A3Wally_272 (GD1), Bloom_188 (FC), Cece_237 (GD3), PauloDiaboli_272 (GD1), Racecar_185 (FC), Talia1610_187 (FC),

Start 8:
• Found in 1 of 13 (7.7%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Patbob_184 (FC),

Start 12:
• Found in 4 of 13 (30.8%) of genes in pham
• No Manual Annotations of this start.
• Called 25.0% of time when present
• Phage (with cluster) where this start called: DunneganBoMo_182 (FC),

Start 13:
• Found in 6 of 13 (46.2%) of genes in pham
• No Manual Annotations of this start.
• Called 16.7% of time when present
• Phage (with cluster) where this start called: SJReid_187 (FC),

Summary by clusters:

There are 4 clusters represented in this pham: GD3, GD1, GD2, FC,

Info for manual annotations of cluster FC:
•Start number 7 was manually annotated 1 time for cluster FC.

Info for manual annotations of cluster GD1:
•Start number 7 was manually annotated 2 times for cluster GD1.

Info for manual annotations of cluster GD2:
•Start number 6 was manually annotated 2 times for cluster GD2.

Info for manual annotations of cluster GD3:
•Start number 7 was manually annotated 1 time for cluster GD3.

Gene Information:

Gene: A3Wally_272 Start: 149259, Stop: 149999, Start Num: 7
Candidate Starts for A3Wally_272:
(Start: 7 @149259 has 4 MA's), (11, 149283), (13, 149343), (16, 149367), (17, 149388), (23, 149505), (25, 149556), (29, 149613), (33, 149691), (34, 149712), (37, 149745), (41, 149799), (42, 149808), (43, 149814), (45, 149844), (47, 149892), (50, 149928), (51, 149943), (55, 149976),

Gene: Atuin_184 Start: 122904, Stop: 123635, Start Num: 4
Candidate Starts for Atuin_184:
(4, 122904), (9, 122925), (14, 123000), (17, 123024), (22, 123132), (25, 123207), (28, 123255), (30, 123270), (36, 123384), (46, 123513), (48, 123549), (52, 123603), (53, 123609), (54, 123612), (56, 123630),

Gene: Big4_255 Start: 145830, Stop: 146576, Start Num: 6
Candidate Starts for Big4_255:
(1, 145716), (Start: 6 @145830 has 2 MA's), (11, 145857), (13, 145917), (17, 145977), (19, 146016), (25, 146145), (27, 146160), (28, 146193), (29, 146202), (37, 146334), (38, 146343), (41, 146388), (46, 146451), (47, 146478), (48, 146487), (51, 146529), (55, 146562),

Gene: Bloom_188 Start: 122403, Stop: 123155, Start Num: 7
Candidate Starts for Bloom_188:
(Start: 7 @122403 has 4 MA's), (12, 122472), (17, 122517), (20, 122622), (26, 122709), (28, 122751), (30, 122766), (33, 122838), (35, 122859), (36, 122877), (40, 122919), (50, 123069), (52, 123099), (57, 123135),

Gene: Cece_237 Start: 142427, Stop: 143161, Start Num: 7
Candidate Starts for Cece_237:
(Start: 7 @142427 has 4 MA's), (10, 142442), (13, 142511), (14, 142517), (15, 142526), (17, 142556), (23, 142673), (25, 142724), (31, 142844), (41, 142967), (42, 142976), (44, 142994), (49, 143075), (51, 143111),

Gene: DunneganBoMo_182 Start: 119659, Stop: 120315, Start Num: 12
Candidate Starts for DunneganBoMo_182:
(12, 119659), (17, 119704), (22, 119812), (25, 119887), (28, 119935), (30, 119950), (36, 120064), (39, 120088), (46, 120193), (52, 120283), (53, 120289), (54, 120292), (56, 120310),

Gene: Mimi_190 Start: 122095, Stop: 122868, Start Num: 3
Candidate Starts for Mimi_190:
(2, 122071), (3, 122095), (5, 122113), (17, 122230), (18, 122242), (20, 122335), (22, 122341), (26, 122422), (28, 122464), (30, 122479), (33, 122551), (35, 122572), (36, 122590), (40, 122632), (47, 122746), (50, 122782), (52, 122812), (57, 122848),

Gene: Patbob_184 Start: 123234, Stop: 123980, Start Num: 8
Candidate Starts for Patbob_184:
(8, 123234), (17, 123342), (18, 123354), (20, 123447), (22, 123453), (28, 123576), (30, 123591), (33, 123663), (35, 123684), (36, 123702), (40, 123744), (47, 123858), (50, 123894), (52, 123924), (57, 123960),

Gene: PauloDiaboli_272 Start: 146458, Stop: 147198, Start Num: 7
Candidate Starts for PauloDiaboli_272:
(Start: 7 @146458 has 4 MA's), (11, 146482), (13, 146542), (14, 146548), (16, 146566), (17, 146587), (23, 146704), (25, 146755), (29, 146812), (33, 146890), (34, 146911), (37, 146944), (41, 146998), (42, 147007), (43, 147013), (45, 147043), (47, 147091), (50, 147127), (51, 147142), (55, 147175),

Gene: Racecar_185 Start: 122996, Stop: 123748, Start Num: 7
Candidate Starts for Racecar_185:
(Start: 7 @122996 has 4 MA's), (12, 123065), (17, 123110), (20, 123215), (26, 123302), (28, 123344), (30, 123359), (33, 123431), (35, 123452), (36, 123470), (40, 123512), (47, 123626), (50, 123662), (52, 123692), (57, 123728),

Gene: SJReid_187 Start: 112490, Stop: 113131, Start Num: 13
Candidate Starts for SJReid_187:
(13, 112490), (17, 112520), (22, 112631), (24, 112676), (28, 112754), (29, 112763), (33, 112841), (36, 112880), (38, 112901), (44, 112970), (46, 113009), (47, 113036), (50, 113072),

Gene: Talia1610_187 Start: 122413, Stop: 123165, Start Num: 7
Candidate Starts for Talia1610_187:
(Start: 7 @122413 has 4 MA's), (12, 122482), (17, 122527), (20, 122632), (26, 122719), (28, 122761), (30, 122776), (33, 122848), (35, 122869), (36, 122887), (40, 122929), (47, 123043), (50, 123079), (52, 123109), (57, 123145),

Gene: Zooman_238 Start: 144525, Stop: 145274, Start Num: 6
Candidate Starts for Zooman_238:
(Start: 6 @144525 has 2 MA's), (11, 144555), (13, 144615), (17, 144675), (21, 144765), (29, 144900), (32, 144972), (33, 144978), (41, 145086), (42, 145095), (46, 145149), (47, 145176), (48, 145185),